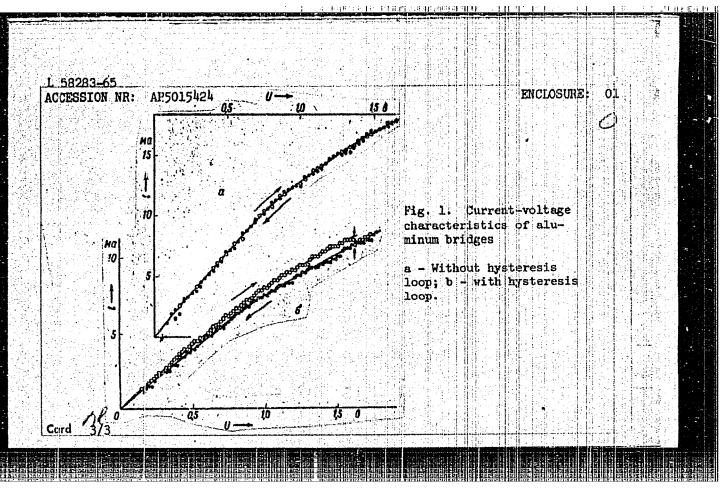
APPROVED FOR RELEASE. 07, 10, 2002 GALKIN, I.F., inzh.; YEVSEYEV, Yu.A., inzh. Use of automatic and remote control in subway power supply. Elek. i tepl. tiaga 2 no.7:26-27 Jl 158. (M. (Leningrad-Subways) (Automatic control) (Remote control) (MIRA 11:7)

> CIA-RDP86-00513R000614120002-5" **APPROVED FOR RELEASE: 07/16/2001**

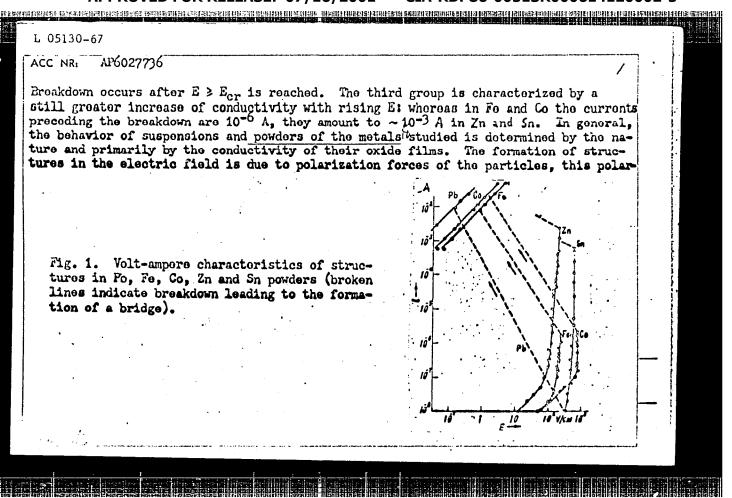
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ntmt C •	New data on the	electrical breakdo	wn of alumin	um suspension	3 in <u>dielectric</u>	14/01
SOURCE:	AN SSSR. Dokl	ady, v. 162, no. 4,	1965, 839-8	431		2
TOPIC T	AGS: dielectric	breakdown, aluminu	m suspension	, aluminum di	electric,	
뭐라 싫다		a phenomenological d	lescription c	of the process	by which alu-	
minum	n suspensions is	s converted from a d	iielectric (d	lue to its oct	dized surface cipal stages o	
layer)	to a conductor,	the authors cook me	time of the st	the rate of	one frame ever	y
4 sec.	The aluminum po	owder particles, ran	ot 1 11	were disper	sed in B-70 av	ri.e.—
to sev	eral microns (pea	ak of distribution t	ted with B-11	(into which	the electrodes	
were i	nserted) were als	so studied. Photogr	rapha ropzon	he authors in	vestigated the	
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and 3 formulas. ASSOCIATION: none SURMITTED: 18Dec6	4	ENCL: 01		SUB COI	E: IC, EM	

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AUTHOR: Gind:	in, L. G.; Vol'pyan, A. Yo.; G	alkin, I. F.	8	9
ORG: All-Unic	on Correspondence Polytechnic	Instituto (Vsosoyuzn	yy zaochnyy politek	inni-
	uralization of suspensions and	l powdors of cortain	metals in a consta	nt
SOURCE: AN SS	SR. Doklady, v. 169, no. 4, 1	966, 865-867		
ABSTRACT: Sus Cr; No; W, Sb, motal particlo of the behavio groups: (1) Po between the fir sonted by lead ured, and becar ond group is re to the breakdor	pensions in gasoline (B-70) and Bi, Sn, Pb and Ag were studies a wore exidized as a result of r of their disperse systems, t, Bi; (2) Fe, Co, Ni, Cr, W, M rest three groups are shown in the conductivity of lead up no high only after the breakdo presented by Fe and Co, whose sn) display a conductivity obe characteristic of thin semiconductivity obe characteristic of thin semiconductivity obe	d gasolino-immorsod d in a constant olec prolonged contact w he metals studied ar to; (3) Sn, Zn; (4) A Fig. 1, where the fi to the breakdown wa wm (indicated by a b structures in relat	powders of Fe, Mi, etric field. All the with air. On the base divided into four ag. Sb. The different group is represented to low to be merovoken line). The aircely weak fields (Co, ho
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GALYIN, I. G.

"Comparative Effectiveness of Various Nethods for Winter Concrete and Reinforded-Concrete Works." Thesis for degree of Cand. Technical Sci., Sub 24 Jun 49, Moscow Engineering Economics Inst imeni Sergo Ordzhonikidze.

Summary 82, 18 Dec 52, <u>Dissertations Presented For Degrees in Science and Engineering in Moscow in 1949</u>. From <u>Vechernyaya Moskva</u>, Jan-Dec 1949.

GALKIN, I.G.

PHASE I

TREASURE ISLAND BIBLIOGRAPHIC REPORT

AID 146 - I

BOOK

Call No.: TA681.G25

Author: GALKIN, I. G., Bach. Eng. Sci.

Full Title: SELECTION OF THE EFFECTIVE METHOD OF WINTER CONCRETE WORK Transliterated Title: Vibor effektivnogo sposoba zimnego betonirovaniya

Publishing Data

Originating Agency: Constructor's Library on Questions on Economics and Planning Publishing House: State Publishing House of Construction Literature (Stroyizdat) No. of copies: 4,000 No. pp.: 91

Date: 1951

Coverage:

Editorial Staff

Editor: Budnevich, L. I., Bach. Eng. Sci.

Tech. Ed.: None

Editor-in-Chief: None

Appraiser: None

Text Data

Methods of computation of the time-temperature relation for different concrete grades under different winter conditions are given for comparison and selection of the most efficient and economical procedure in concrete and reinforced concrete works under given climatic and regional conditions. The analysis of technico-economical characteristics of different methods of mold heating is presented with tables

and charts. The book contains analytical and practical solutions of essential problems on winter concrete works based on the experiments of promi-

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GALKIN, I.G.

Vibor effektivnogo sposoba zimnego betonirovaniya

AID 146 - I

nent engineers in the scientific research institutions.

Purpose: A handbook for engineers, designers, and technical personnel in

construction works.

Facilities: Presented data developed from early works of the following Soviet scientists: Prof. A. V. Baranovikiy, Prof. T. A. Kireenko, Dr. Eng. Sci., V. S. Luk'yanov, Prof. V. D. Machinskiy, Laureate of the Stalin Prize, Dr. Eng. Sci. S. A. Mironov, Bach. Eng. Sci. E. V. Shuipko, Laureate of the Stalin Prize, Bach. Eng. Sci. V. N. Sizov, Prof. B. G. Skramtaev, Laureate of the Stalin Prize, Bach. Eng. Sci.

I. G. Sovalov, Bach. Eng. Sci. V. F. Utenkov and others.

No. of Russian and Slavic References: 12 Available: Library of Congress.

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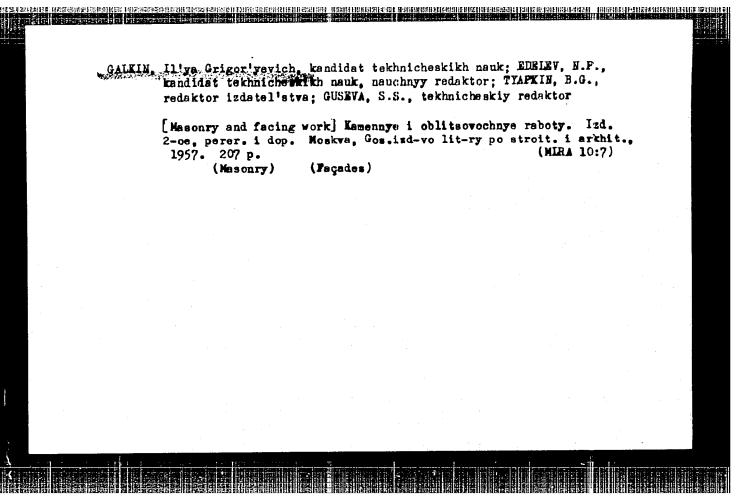
GALKIN, I. G.

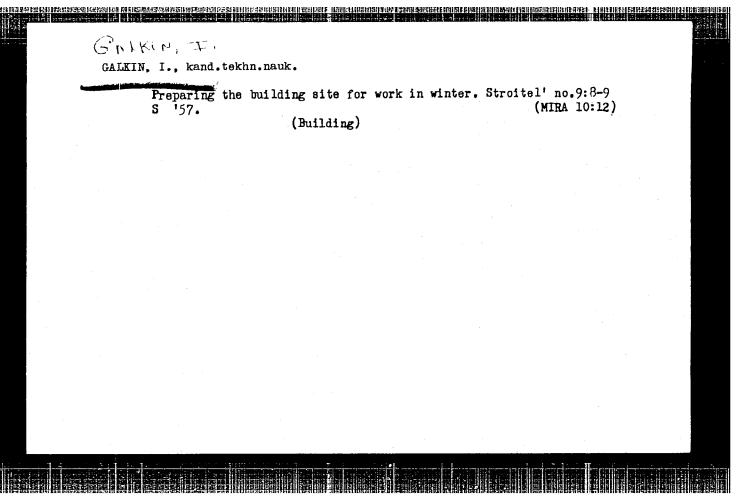
1/399. GALKIN, 1. G. I CHEP'ZHENKO, A. V. -- Kamennayyo rabety. (nchebnik diya izd stroit. prom-sti). Kaunas, uchpedgiz, 1954. 164 s. s ill. 22 sm. 2.00 ekz. 3r. 85k. V per.--Bibliogr: S. 161 -- Na litov. yaz.--(54-57058) 693.1/2 & (016/3)

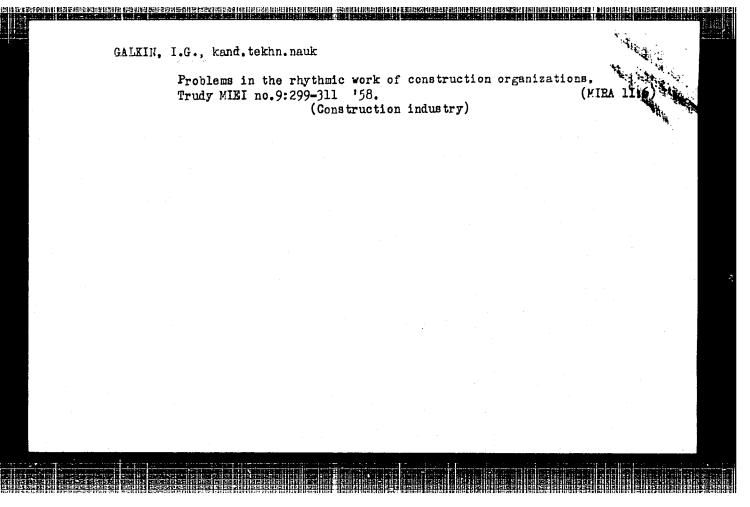
SO: Knizhnaya Letopsis', Vol. 1, 1955

USPENSKIY, Vasiliy Vasil'yevich; GALKIN, I.G., kandidat tekhnicheskikh nauk, redaktor; KUTSENOVA, A.A., redaktor izdatel'stva; MEDVEDEV, L.Ya., tekhnicheskiy redaktor

[Lowering the cost of reinforced concrete construction] Snishenie stoimosti sbornego shelesnobetoma. Isd. 3-e, dop. Moskva, Gos. isd-vo lit-ry po stroit. i arkhit., 1956. 100 p. (MLRA 9:7) (Reinforced concrete construction)







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ETMEKDZHIYAN, Ashot Arutyunovich; GALKIN, I.G., kand.tekhn.nauk, nauchnyy red.; MORSKOY, K.L., red.izd-va; EL'KINA, Z.M., tekhn.red.

[Consolidation and specialization of building organizations and building materials plants in Moscow; practices and economic effectiveness] Ukrupnenie i spetsializatsiia stroitel'nykh organizatsii i predpriiatii promyshlennosti stroitel'nykh materialov v Moskve; opyt i ekonomichesksia effektivnost'. Moskva, Gos.izd-volit-ry po stroit., arkhit. i stroit.materialam, 1959. 141 p.

(MIRA 13:6)

(Moscow--Construction industry)
(Moscow--Building materials industry)

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GALKIN, I.G., dotsent, kand.tekhn.nauk

Methods for lowering costs of concrete and reinforced concrete construction in winter. Trudy MIEI no.14:373-387 '59.

(MIEA 13:1)

1. Moskovskiy inshenerno-ekonomicheskiy institut.

(Concrete construction--Cold weather conditions)

(Building--Estimates)

GALKIN, I.G., kand.tekhn.nauk, red.; SHITOVA, L.W., red.izd-ve;

SHERSTREVA, N.V., tekhn.red.

[Norms and instructions (SN 104-60) related to operation completion in housing construction] Normy i ukazaniia po opredeleniiu zadela v zhilishchnom stroitel'stve (SN 104-60).

Izd.2., ispr. Moskva, Gos.izd-vo lit-ry po stroit., arkhit.
i stroit.materialam, 1961. 27 p. (MIRA 14:12)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.

(Construction industry)

GAIKIN, I.G., kand.tekhn.nauk, dotsent

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(Construction industry)

VARENIK, Ye. I., doktor tekhn.nauk, prof.; KANFORER, S.Ye., kand.tekhn.nauk, dotsent;

RALKIN, I.G., kand.tekhn.nauk, dotsent; PETROV, I.A., doktor tekhn.nauk, prof.; VIKHREV, I.D., kand.tekhn.nauk, dotsent;

DIKOV, N.D., kand.tekhn.nauk, dotsent; SIRTSOVA, Ye.D., kand.tekhn.nauk, dotsent;

EKNN.nauk, dotsent; BRISKMAN, I.A., ekonomist; IL'IN, V.M., inzh., nauchnyy red.; IMYKIN, B.P., ekonomist, nauchnyy red.;

SKYCRTSOVA, I.P., red.izd-wa; GERASIMOVA, G.S., red.izd-wa;

GOL'BERG, T.M., tekhn.red.; KASIMOV, D.Ya., tekhn.red.

[Organization and planning in the construction industry] Organizate in planirovanie stroitel nogo proizvodstva. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1961. 526 p. (MIRA 14:12)

1, Chleu-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Varenik). (Construction industry)

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MALYUGIN, V.I., red.; KATSIN, A.S., red.; USPENSKIY, V.V.,
red.; LEYKIN, B.P., red.; SHASS, M.Ye., red.; GLAZUNOVA,
Z.M., red. izd-va; BOROVNEV, N.K., tekhn. red.

[Problems of rythm and operation completion in construction]
Voprosy ritmichnosti i zadela v stroitel'stve. Moskva, Cosstroitzdat, 1962. 168 p.

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(Construction industry)

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red.; GLAZUNOVA, Z.M., red. izd-va; MOCHALINA, Z.S., tekhn.
red.

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no.14)

(Apartment houses) (Construction industry)

VARENIK, Ye.I.; PETROV, I.A., doktor tekhn. nauk; KANTOFER. S.Ye., doktor ekon. nauk; GALKIN, I.G., doktor ekon. nauk; PARAUHEK, G.E., kard. tekhn. nauk; DIKOV, N.D., kand. tekhn. nauk; VIKHREV, I.D., kand. tekhn. nauk; SYRTSOVA, Ye.D., kand.tekhn. nauk; BALIKHIN, M.I., kand. ekon. nauk; HRISKMAN, I.A., ekonomist

[Organization and planning of construction production] Oraganizatsiia i planirovanie stroitel'nogo proizvoistva. 2. izd. [By] E.I.Varenik i dr. Moskva, Stroitzdat, 1905. 531 p. (MIRA 18:2)

LUKAYEV, Lazar' Panayotovich GALKIN, I.G., prof., retsenzent; KUPERSHMIDT, L.S., red.

[Cranes for construction assembly and loading and unloading operations] Krany dlia stroitel'no-montazhnykh i pogruzochno-razgruzochnykh rabot. Moskva, Vysshaia shkola, 1965. 231 p. (MIRA 18:7)

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Use of explosions as sources of sound in determining the depth of the sea. Trudy Okean. kom. 10 no.1:152-169 '60. (MIRA 14:6)

1. Institut okeanologii i Institut fiziki Zemli AN SSSR. (Pacific Ocean—Seismometry)

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S/169/62/000/005/017/093 D228/D307

AUTHORS:

Galkin, I. N. and Kichin, N. N.

TITLE:

Application of amplifiers of the seismic station C(-30/60 KMMB (SS-30/60 KMPV) for deep seismic sounding

work

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 5, 1962, 26, abstract 5A203 (V sb. Razved. i promysl. geofiz., no.

42, M., 1961, 29-38)

TEXT: A redesigned version of serial station amplifiers is proposed for deep seismic sounding work with the aim of changing over to low-frequency recording on moving for distances of 300 - 400 km from the explosion point. Frequency characteristics, open leftwards to 2 c/s (on the 3 db level) and having a large set of righthand cuts of variable sharpness in the frequency-band 5 - 20 c/s were obtained as a result of the redesigning. The improvement in the left-hand (low-frequency) part of the frequency characteristic -is related to the increase in the time constant of the connecting

Card 1/2

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Application of amplifiers ...

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circuits and to the increase in the inductance of the input and the output transformers. Versions of transformerless anode and cathode outputs that are sufficiently reliable and simple in their execution are also considered. The set of the right cuts of the characteristics was successfully increased and displaced to the low-frequency side at the expense of a different switch commutation, the increased inductance in the filter, and the use of new low-frequency filters -- two-mesh asymmetrical P-shaped filters with increased inductance at the center, single-mesh P-shaped filters with doubled inductance, and single-mesh T-shaped filters. The harmonization of the filters, ensuring the best form of the frequency characteristics, was thereby accomplished. Experimental data are cited about the influence of the regime of the amplifier's input on its frequency characteristic. Several intermediate versions of amplifier redesign are suggested in relation to the problems and the available parts. / Abstracter's note: Complete translation. 7

Card 2/2

APPROVED FOR RELEASE: U//10/2001 CLA IND. CC COMPANY OF THE PROPERTY OF THE PR IVANOV, M.I., PODOL'SKAYA, N.S., GALKIN, I.N. Dissolution calorimeter with an oscillating reaction vessel. Zhur.fiz.khim. 36 no.8:1838-1841 Ag '62. (MIRA 15:8) (Calorimeters)

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ACC NR: AP6032417 (N) SOURCE CODE: UR/0387/66/000/009/00	012/0022
AUTHOR: Zverev, S. M.; Galkin, I. N.	29 B
ORG: Institute of Physics of the Earth, Academy of Sciences, SSSR (Institut Zemli, Akademiya nauk SSSR)	fiziki
TITLE: Methods of observation and possibilities of increasing the recording deep seismic sounding at sea '/' SOURCE: AN SSSR. Tzvestiya. Fizika Zemli, no. 9, 1966, 12-22	g range in
TOPIC TACS: deep seismic sounding, seismic measurement, marine seismic measurement, seismic noise background, microseismic delamographic seismic measurement, seismic noise background, microseismic measurement, ocean acoust abstract: The state-of-the-art of regional microseismic investigations on the state-of-the-art of regional microseismic investigations of the state-of-the-art of the state-of-the-art of the state-of-the-art of the state-of-	ries
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the problem of improving the recording range, instrument parameters, and technology to the absolute values of seismic measurements at sea is examined. Comparison of the absolute values ignals recorded during deep seismic sounding with the microseism backgrounds.	chniques ues of
at sea shows that during observations at a specific water layer or with the phone on the bottom, the level of regional background noise sets certain line effective sensitivity of this method. The level of regional microseisms is	hydro- mits on the
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L 04927-67 EMT(1) ACC NR: AT6028734 SOURCE CODE: UR/3152/66/000/010/0041/0047 AUTHOR: Galkin, I. N.; Zverev, S. M. ORG: none TITLE: Hydrophones for deep-sea seismic sounding SOURCE: Razvedochnaya geofizika, no. 10, 1966, 41-47 TOPIC TAGS: seismologic instrument, ocean acoustics, seismic wave

ABSTRACT: A novel light-weight piezoelectric hydrophone is described which will record elastic waves over a wide dynamic and frequency range. It was developed at the Institute of Physics of the Earth, AN SSSR (Institut fiziki Zemli AN SSSR). The device makes it possible to record simultaneously, without distortion, waves originating from deep-lying interfaces in the earth's crust and sound waves propagating in the water. The sensors are cylindrical radially polarized piezoceramics (either barium titanate or lead zirconate titanate), characterized by high mechanical strength, thermal stability, and resistance to moisture. A lowvoltage version of a preamplifier, designed to increase the signal level at the point of reception and to match the high-resistance piezoelement with the recording circuits, is diagrammed

Card 1/2

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APPROVED FOR RELEASE: 07/16/2001

and discussed. The hydrophone weighs 0.4 kg, and its parameters are: sensitivity, $35-50$, $\mu\nu/\text{dyne/cm}^2$; transmission and from 1 cps to 1 kc; a minimum value of 0.2 dyne/cm ² of signals detectable against a noise background; a maximum undistorted signal of ~200 x 10 dyne/cm ² ; and a dynamic range of the order of 120 db. Orig. art. has: 1 table and 4 figures.								
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ACC NR: AF6036361

(N)

SOURCE CODE: UR/0387/66/000/011/0100/0107

AUTHOR: Galkin, I. N.

ORG: Academy of Sciences SSSR, Institute of Physics of the Earth (Akademiya neuk SSSR, Institut fiziki Zemli)

TITLE: Use of absolute amplitude characteristics of waves for the adjustment of apparatus used in deep seismic sounding at sea

SOURCE: AN SSSR. Izvestiya. Fizika Zemli, no. 11, 1966, 100-107

TOPIC TAGS: seismic prospecting, geophysic research facility, submarine relief, oscilloscope, magnetic recording

ABSTRACT: The author proposes a method for adjusting the gain of seismic apparatus on the basis of a determination of the absolute amplitudes of the useful waves and accurate calibration of the receiving apparatus. This is to replace the presently employed intuitive procedure of adjusting the equipment to minimize the background. The signal-amplitude transformations occurring in each element of the recording apparatus are traced, and ways of determining the minimum and maximum electric-output signals for a specified apparatus sensitivity are described. The experimental data used for the analysis were obtained during the 1963-1964 deep seismic-sounding expedition in the Pacific. The data show that the dynamic range of the seismic waves produced at distances of 10-200 km by exploding a charge of 130 kg TNT spans 4 - 5 decades. For correct signal registration, it is therefore necessary to have an exact calibration of

card 1/2

UDC: 550.834

ACC NR: AP6036361

the amplifiers for each gain setting, and to use parallel channels having different sensitivities. A comparison of oscillographic and magnetic recording is obtained. The former has a wider range (a ratio of 6 orders of magnitude is possible, against about 2 orders with magnetic recording), but the latter is essential when the operator cannot observe the seismic signal for some reason. A diagram which facilitates the choice of the amplification apparatus for seismological profiling is presented and its use is explained. It is concluded that the use of absolute signal magnitudes can be useful for the comparison of the results of different seismic methods such as seismological profiling deep, seismic sounding, and low-frequency seismic prospecting. Orig. art. has: 3 figures, 2 formulas, and 1 table.

SUB CODE: 08, 09/ SUBM DATE: 16Jul65/ ORIG REF: 011/ ATD PRESS: 5108

Card 2/2

ACC NR: AF60363	61 (N)	SOURCE CODE:	UR/0387/66/000/011/010	1
Institut fiziki ITILE: Use of a ratus used in de SOURCE: AN SSSI FOPIC TAGS: se cilloscope, mag ABSTRACT: The sus on the basis accurate calibr employed intuit The signal-ampl ratus are traced nals for a spec for the analysi in the Pacific.	Sciences SSSR, Insti- Zemli) absolute amplitude cha- eep seismic sounding a R. Izvestiya. Fizika Z ismic prospecting, geo- netic recording author proposes a meth- of a determination of ation of the receiving ive procedure of adju- itude transformations, and ways of determin- ified apparatus sensi- s were obtained during The data show that	racteristics of wave t sea demli, no. 11, 1966, ophysic research fac- nod for adjusting the f the absolute ampli- g apparatus. This is sting the equipment occurring in each ening the minimum and tivity are described g the 1963-1964 deep the dynamic range of	ility, subjectine reality,	os- parat- es and tly und. appa- t sig- a used ition uced at For
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AGC NR: AP6036361

the amplifiers for each gain setting, and to use parallel channels having different sensitivities. A comparison of oscillographic and magnetic recording is obtained. The former has a wider range (a ratio of 6 orders of magnitude is possible, against about 2 orders with magnetic recording), but the latter is essential when the operator cannot observe the seismic signal for some reason. A diagram which facilitates the choice of the amplification apparatus for seismological profiling is presented and its use is explained. It is concluded that the use of absolute signal magnitudes can be useful for the comparison of the results of different seismic methods such as seismological profiling deep, seismic sounding, and low-frequency seismic prospecting. Orig. art. has: 3 figures, 2 formulas, and 1 table.

SUB CODE: 08, 09/ SUBM DATE: 16Jul65/ ORIG REF: 011/ ATD PRESS: 5108

Card 2/2

GALKIN, I.P.; VERYTIN, U.D.; KARPOV, V.I.

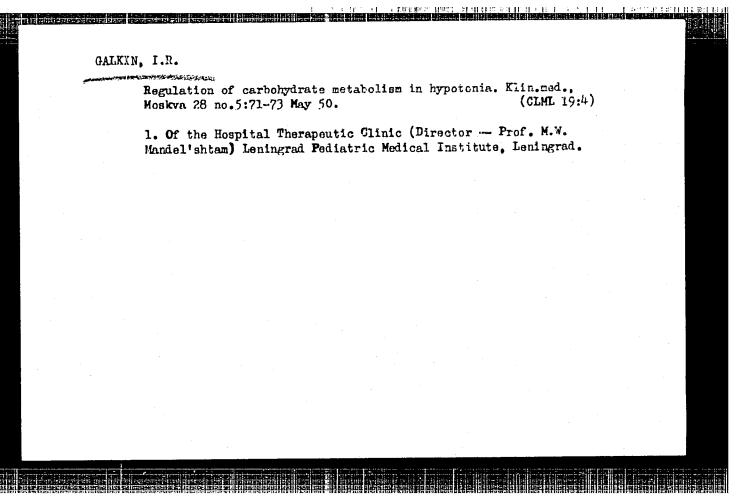
Some physicochemical properties of ammoniumuranyl pentafluoride. Zhur. neorg. khim. 7 no.8:2020-2022 Ag '62.
(MIRA 16:6)

(Uranyl compounds)

YESINOVSKAYA, C.N., GALKIN, L.F.

Two cases of tuberculosis of the bones of the cranial vault. Probl.
tub. 42 m., lir71-72 | 64.

1. Ob*gedineniya wheleznodorozhnaya bol'nitsa (glavnyy vrach Ye.P.
Belova) st. Velikiye Iuki.

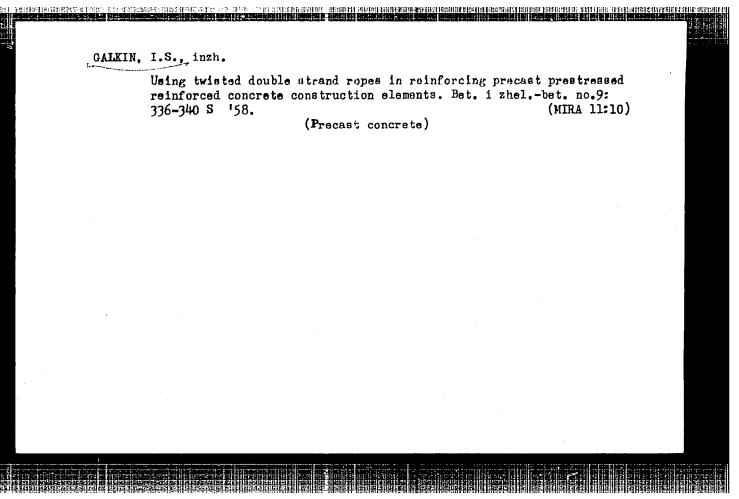


VOLKOVA, K.A.; GAUKHMAN, R.P.; GALKIN, I.S., prof., otv.red.; KUDRYAVTSEVA, A.I., red.; FEDOROV, I.V., dotsent, red.; BLANK, Ye.Ye., bibliograf-redaktor

[Aleksandra Andreevna Glagoleva-Arkad'eva, 1884-1945; a biographical sketch] Aleksandra Andreevna Glagoleva-Arkad'eva, 1884-1945; biograficheskii echerk. Sost.K.A.Volkova. Moskva, 1947. 31 p. (MIRA 12:6)

Moscow. Universitet. Biblioteka.
 (Glagoleva-Arkad'eva, Aleksandra Andreevna, 1884-1945)

Telescopic hoist	ing jack. Me	kh.stroi.4 no.3	M 01–8: M)	r. '47. LRA 9:2)	
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YERUSALIMSKIY, A.S., doktor ist. nauk, otv. red.; AYZIN, B.A., kand. ist. nauk, red.; GALKIN, I.S., doktor ist. nauk, red.; GOROSHKOVA, G.N., kand. ist. nauk, red.; SMIRIN, M.M., doktor ist. nauk, red.; TARTAKOVSKIY, B.G., red. izd-va; NOVICHKOVA, N.D., tekhn. red.

[German labor movement in the modern period]Germanskoe rabochee dvizhenie v novoe vremia; sbornik statei i materialov. Moskva, Izd-vo Akad. nauk SSSR, 1962. 405 p. (MIRA 15:10)

1. Akademiya nauk SSSR. Institut istorii.
(Germany—Labor and laboring classes)

card 1/2

30305 \$/109/61/006/011/020/021 D201/D304 Artemenkov, L.I., and Galkin, I.Y. A high-frequency rotating field in a cylindrical 9,1300 (1144) AUTHORS Radiotekhnika i elektronika, v. 6, no. 11, 1961, resonator TITLE: TEXT: The experiments were carried out with a copper cylindrical TEXT: The experiments were carried out with a copper cylindrical was appreciator 255 mm dia. The supply generator wave length was appreciator 255 mm dia. PERIODICAL: proximately 40 cm. The indication of the fields inside the resonator was obtained by a loop and two nine proximatery 40 cm. The indication of the lieuw inside the reson tor was obtained by a loop and two pins. The loop was placed in the brond-cut-off section of a circular wavesmide and could be resonable. tor was obtained by a loop and two pins. The loop was placed in the byond-cut-off section of a circular waveguide and could be rotated around the axis of the latter. The dimensions of the tated around the axis of the latter. tated around the axis of the latter. The dimensions of the loop (~10 x 10 mm) and its distance from the end face surface of the respector were chosen in such a menner that the loop would not at resonator were chosen in such a manner that the loop would not distort the field netterns inside the resonator. The role were constant that the field netterns inside the resonator. resonator were chosen in such a manner that the loop would not distort the field patterns inside the resonator. The rods were orientort the field patterns inside the resonator. The rods were orientort the field patterns inside the resonator. The rods were orientort to the field of both passive and active no larization. The denth of their insertion could also be tive no larization. tive polarization. The depth of their insertion could also be va-

A high-frequency rotating field ...

30305 \$/109/61/006/011/020/021 D201/D304

ried. The experiments showed that with resonant curves of both polarizations superimposed on each other and with accurate tuning to the frequency of the resonance \mathbf{f}_p of the passive polarization, the

curve of dependence of the detector current on the angle of rotation has a nearly elliptical shape, independently of detuning with respect to the actual polarization frequency $\mathbf{f}_{\mathbf{a}}$, the axes of the

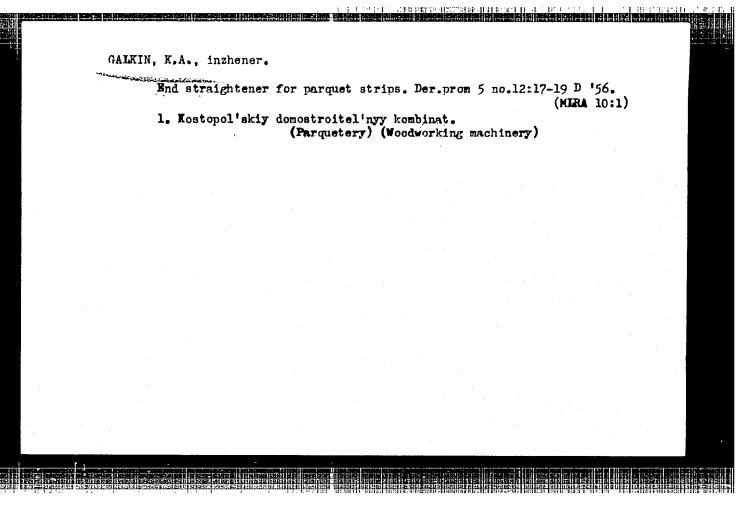
ellipse being oriented in the required direction with an accuracy of $\pm~10^{\circ}$. The conclusion may be made, therefore, that when the generator is tuned to the resonant frequency of passive polarization, a phase shift of $\pi/2$ occurs between the components of the H_{111}

field. This corresponds qualitatively to a $\pi/2$ phase shift between primary and secondary currents in inductively coupled circuits with lumped parameters when the secondary is tuned to the generator frequency. There are 5 figures and 1 Soviet-bloc reference.

SUBMITTED: March 3 1961

Card 2/2

Y



GAIRIN, K. I.

21083 Galkin, K.I. O Kompelktovanii aspirantury. Vestnik vy ssh. shkoly, 1949, No. 6, s. 41-42

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Noskva, 1949

BALKIN, KiT.

AUTHOR:

Galkin, K.T., Candidate of Pedagogical Sciences. 3-9-10/31

TITLE:

From the History of the System of Conferring Degrees on Scientific Pedagogical Cadres (La Astorii attestatsii nauchno-pedagoicheskikh

kadrov)

PERIODICAL:

Vestnik Vysshey Shkoly, 1957, # 9, pp 44 - 48 (USSR)

ABSTRACT:

The author gives a description of the history of graduations during the post-revolution period.

Scientific ranks and titles were abolished at the beginning of the post-revolution period, but they were re-introduced. Since then the number of holders has increased.

More than 11,000 doctors of sciences were graduated from 1937 to 1956, 27% of them during 1951-1955. This general figure is broken up among the various sections as follows: 30% of the doctor's degrees were conferred in medical sciences, 23% in engineering, 10% in biology, 6% in physics and mathematics, 5.6% in agriculture, 5% in geology and 4.9% in geology and mineralogy. During the same period the degree of candidate of sciences was conferred to 95,000 persons. This figure was reached in the following proportion: 12,000 applicants obtained the degree of a candidate of sciences from 1937 - 1940, 22,700 from 1946 - 1950, more than 50,000 from 1951 - 1956.

Card 1/2

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From the History of the System of Conferring Degrees on Scientific 3-9-10/31 Pedagogical Cadres

The highest percentage of candidates is in technical sciences. In social sciences, physics, mathematics, geography, pedagogy and the study of art, doctors and candidates are in demand.

During 1937 - 1955, 9,700 professors and nearly 36,000 dotsents were graduated. In 1956, more than 400 persons obtained the degree of a professor and more than 2,500 the degree of a dotsent.

The Supreme Commission of Attestation exercised severe control and during 1947 - 1956, 956 contestants for the degree of candidate were rejected. Nevertheless the situation is still unsatisfactory and various deficiencies were stated in the report made by N.A. Bulganin at the XXth Congress of the KPSS. The Supreme Commission of Attestation was directed to increase qualification requirements for doctor's and candidate's theses and to pay special attention to the scientific and practical value of the submitted works.

In a report made at this Party Congress, N.S. Krushchev stated that, with regard to the pre-war period, the number of specialists possessing a higher education has increased considerably. The article contains percentages of specialists for nationalities, republics and regions.

Library of Congress

AVAILABLE: Card 2/2

802

PHASE I BOOK EXPLOITATION

Galkin, Konstantin Tikhonovich

- Vyssheye obrazovaniye i podgotovka nauchnykh kadrov v SSSR (Higher Education and Training of Professorial and Scientific Personnel in the USSR) Moscow, Gos. izd-vo "Sovetskaya nauka", 1958. 174 p. 3,000 copies printed.
- Ed. (title page: Konstantinov, N.A., Professor: Ed. (inside book): Gorbachevskiy, B.S.; Ed. of Publishing House: Lipkina, T.G.; Tech. Ed.: Pavlova, V.A.
- **PURPOSE:** The book is a brief review of the development and status of higher education in the USSR.
- COVERAGE: The first part of the book traces the origin and development of higher education in pre-Revolutionary Russia. It portrays the

Card 1/4

Higher Education and Training (Cont.)

802

status and methods of training professorial and scientific personnel in this period and points out the role and significance of scientists and socio-pedagogical workers who had an affect on the institutions of higher learning, on the training of Russian professorial and scientific personnel, and on the development of Russian and world science. The second part of the book emphasizes the role of the Communist Party and that of the Soviet socialist intelligentsia in creating the new Soviet school. It also points out the special features of Soviet higher education, describes the creation and development of a new training system, and presents some of the important results attained in building-up higher education and in the training of professorial and scientific personnel in the USSR during the forty years of socialism. No personalities are mentioned. There are

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		the 19th Century		57
	Ch. 3.	Training Professorial and Scientific Personnel and Education in Russia During the Latter Part of the	Higher 19th Century	40
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Higher	Education and Training (Cont) 802		
	PART II. HIGHER EDUCATION, T OF PROFESSORIAL AND SCIENT	PRAINING AND ACCREDITATION TIFIC PERSONNEL IN THE USSR		
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Bibliog AVAILAB	raphy ME: Library of Congress	JG/ksv	171	
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The Training of Scientists in the Soviet Union. Moscow, Foreigh Languages Publishing House, 1959.

203 p. Tables.

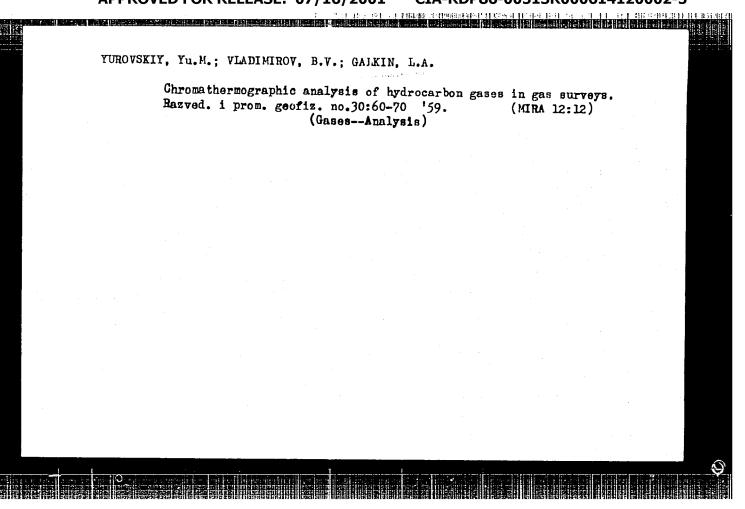
GALKIN, KONSTANTIN TIKHONOVICH

Translated from the Original Russian: Podgotovka Nauchnykh Kadrov v SSSR. Moscow, 1958.

Galkin, K. V., and Zlotnikov, Z. N. Collection of Refractory Scrap.
Ogneupory, 8, 370 (1940).--A review of work carried out by the Refractory Scrap
Organization at Kharkov is given.

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		Card 1/2	SPATIANES: Athrary of Congress (\$1859.FT)	Payrer, F.F. Belationship Between the Observation Control Memolty and the Grid Interval of Geophysical Maps	Verminity, V.S. In-thed for Intecting Sadiosctive Enderions of Very Small Intensity	. Shelterbalows, T.V. Optical Nethods for Investigation of Bore Noise	Scherbabyts, 2.V. lambescence logging	Salkin, L.A. Some Problems in Gas Kogging	Bearwhites of a Row betweek in the Case of a Linear Change of the Ball Point Reallynd, S.E. Linearest for Controlling the Distribution of	Smartery, P.F., Benaity Characteristics of a Geological Gross Section et The Nestern and Canosoft of the Vestern Part of the Vestern Sthering horized. Sthering horized.	${f max}_{i}$, ${f 1}_{i}$, ${f m}_{i}$ back of integral franktions in the Geological Interpretation of Greatstandal Assumbles	Regulation [1.1, Application of the Loop (Spear) method for the Replanation of Buried Structures	Bereitcherenty, M.S. Methods of Curvilines Electrical Soundings	Stategy, A.E., S.J. bertichristy, and A.R. Expendent. Application of New Methods of Electrical Prospecting in Siberia	Survinia, Re.1. Theoretical Principles of Electrical Sounding With an Louvaliation immuraed in Water	Palabbry, M.E., and A.I., Shrishrekiy, Some Problem of the Theory and Design of the Output Stage of a Detacto Amplifter and Salvoneter	Survetors, L.J. Intensity of Refrected and Refuethal Longitudinal Serve at Angles of Indiance Less than Critical	Matherin, Tell., G.A. Krutilskrinkorn, T.I., Mironors, and A.F., Prolons. Methods and Techniques of the Application of Siercographic Projections for the Solution of Spatial Problems in Geometric Sciences.	COTTRICE: The book is a collection of 15 writtles dealing with the theoretical and present of the collection of combine, stained prospecting and grades the Afraces in electrical prospecting in not easily scenarios with equipment of in the common are treated for the first time in forset thierabuse. For which is of the investigation and detection of realization collections of drill habes, as well as applical and instances and larger and larger and larger the first and instances are company and of the artifacts. Betweeness accompany and of the artifacts.	FERFORM: The book is invanded for engineers, technicisms, prophysicists, and persons invarested in the geophysical methods of priminus prospecting.	Mar. A.T. Beginner; Encutive Ed.: E.P. Debeymina; Tech. Ed.: E.A. Makhina	 Prilidizaya gwofizija; abornik statey, vyp. 18 (Applied Gwydynics; Collection of Articles, No. 18) Noscow, Cortoptaki .ida;, 1998, 286 p. Brrata ally inserted. 3,000 copies printei. 	Versoyungy seachno-issledoratel'skly institut geofisicheskikh metedor rarredki.	PAGE I BOOK EXPLORATION BOT/\$576	
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YUROVSKIY, Yu.M.; GAHKIN, LvA.

Calibration of thermochemical gas analyzers used in gas surveys.

Razved, i prom. geofiz. no.30:74-75 '59. (MIRA 12:12)

(Gaees-Analysis)

VIADIMIROV, B.V.; GAIKIN, L.A.

Apparatus for the production of ethylene and the preparation of gas mixtures. Rasved.i pron.geofiz. no.33:67-69 '59.

(Ethylene) (Gases--Analysis)

(Ethylene) (Gases--Analysis)

44574-66 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NRI AP6015701 (A) SOURCE

SOURCE CODE: UR/0413/66/000/009/0101/0101

INVENTOR: Galkin, L. A.; Gurevich, S. M.

ORG: none

TITLE: Method of chromatographic analysis of gas mixtures. Class 42, No. 181375

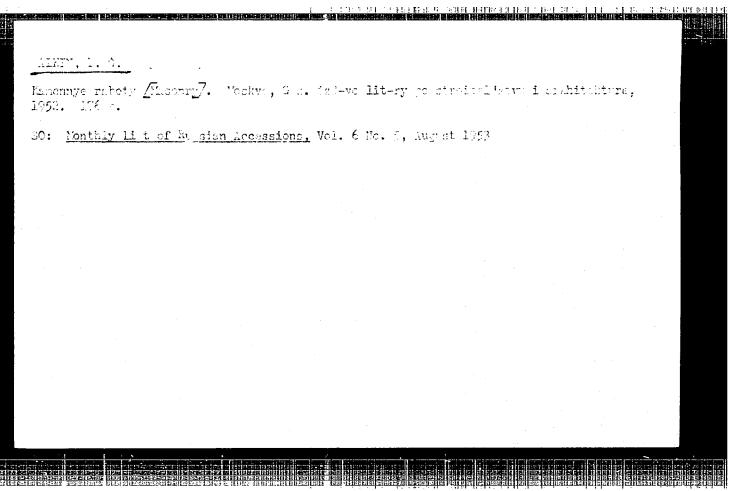
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 101

TOPIC TAGS: chromatographic analysis, argon, oxygen, molecular sieve,

ABSTRACT: An Author Certificate has been issued for a method of chromatographic analysis of gas mixtures containing argon and other low-boiling gases in the presence of oxygen. The gas mixture to be analyzed is separated in a chromatographic column and filled with molecular sieves in the gas-carrier flow, with subsequent rectification of the separated mixture components at the outlet of the column. To shorten the time required for analysis and to increase its accuracy, oxygen is used as a gas carrier. [Translation]

SUB CODE: 07/ SUBM DATE: 21Apr65/

Card 1/1 XM UDC: 543.544.25



\$/080/60/033/010/011/029 D216/D306

AUTHORS:

Flyerov, V.N., Shchegol', Sh.S., Armenskaya, L.V., and

Galkin, L.G.

TITLE:

Electrolysis of hydrochloric acid solutions of

bivalent copper

PERIODICAL: Zhurnal prikladnoy khimii, v. 33, no. 10, 1960,

2245 - 2252

TEXT: The regeneration of chlorine from hydrochloric acid formed in large quantities during the synthesis of DDT, polyvinylchloride etc. presents a very real problem. In their experimental work, the authors studied the electrode characteristics, of hydrochloric solutions of cupric chloride. The equivalent potential for the reaction Cu' + 3Cl' + e - CuCl was determined with a polished platinum electrode in a series of solutions with constant HCl concentrations (\sim 20 %) and varying concentrations of CuCl, and CuCl.

Card 1/4

Electrolysis of hydrochloric ...

S/080/60/033/010/011/029 D216/D306

The sum of the molar concentrations was determined with a potention meter type PPTV-1. To avoid oxidation of the monovalent copper the measurements were taken in an atmosphere of CO₂; cupric chloride in solution was analyzed iodometrically, cuprous chloride using permanganate and iron-ammonium alum. Hydrochloric acid was titrated with sodium hydroxide solution using methyl orange as indicator. The equivalent potential for the reaction CuCl₃ + e \(\to \) Cu + 3Cl' was determined with a copper electrode in a series of solutions with constant HCl and varying CuCl concentrations (from 29 to 138 gm/l). To prevent cupric ions appearing in the solution, copper metal powder was sprinkled in and the experiment was conducted in an atmosphere of CO. The content the experiment was conducted in an atmosphere of CO.

ted in an atmosphere of ${\rm CO}_2$. The article shows the normal potentials of certain oxidation-reduction reactions; the relationship between cathode potential and current density; the relationship between potential and current density in hydrochloric acid solutions of cupric and cuprous chlorides. Cathode-impervious graphite,

Card 2/4

S/080/60/033/010/011/029 D216/D306

Electrolysis of hydrochloric ...

temperature 80°; the relationship between the cathode potential and current density in various electrolytes; the change of potential of a porous graphite cathode with current density at various rates of flow of the electrolyte; anode polarization curves in HCl solutions of CuCl₂. The electrolyzer for electrolysis of HCl solutions of CuCl₂ at 40 amps loading; relationship between current efficiency and current density. It is concluded that 1) The limiting current density with impervious graphite electrodes is increased with decreasing monovalent Cu ions in solution and rising temperature. For parous electrodes the basic factor is the rate of flow of the electrolyte; the temperature and thickness of these cathodes have comparatively little effect. 2) Polarization when chlorine is evolved from HCl solution of bivalent Cu is comparatively small at higher c.d. 3) The current efficiency depends on the type of cathode graphite, the current density and the rate of flow of the electrolyte. There are 7 figures, 2 tables, and 15 references: 5 Soviet-bloc and 10 non-Soviet-bloc. The references to the

Card 3/4

S/080/60/033/010/011/029
Electrolysis of hydrochloric ... S/080/60/033/010/011/029
English-language publications read as follows: I. Gordon, Chem. Eng., 5, 187, 1953; Ch.P. Roberts, Chem. Eng. Progr., 46, 9, 456, 1950.

SUBMITTED: October 5, 1959

Card 4/4

FLEROV, V.N.; SHCHEGOL'; Sh.S.; ARMENSKAYA, L.V.; GALKIN, L.G.; Prinimali uchastiye: KALININA, R.N.; IGUMNOVA, N.N.

Electrolysis of hydrochloric acid solutions of cupric thloride.

Zhur.prikl.khim. 33 no.10:2245-2252 0 160. (MIRA 14:5)

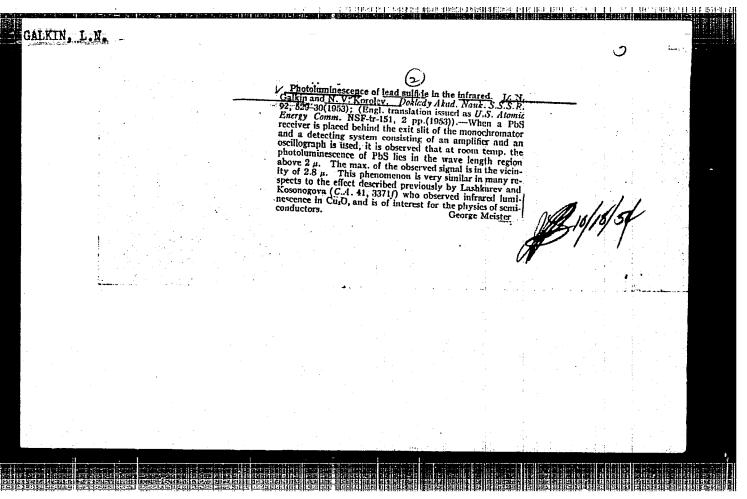
(Copper chloride)

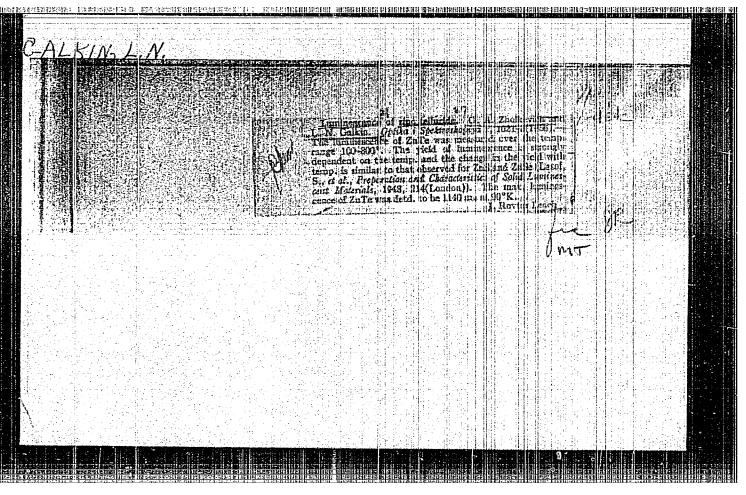
GALKIN, L.M.; AFANAS'YEV, P.M.; MIROSHNICHENKO, M.T.

Landscaping and playground improvements near housing projects. Gor.khoz.Mosk. 28 no.6:25-27 Je '54. (MLRA 7:7)

1. Upravlyayushchiy domami domoupravleniya no. 53 Moskvoretskoto rayona (for Galkin) 2. Upravlyayushchiy domami domoupravleniya
no. 11 Oktyabr'skogo rayona (for Afanas'yev) 3. Upravlyayushchaya
domami domoupravleniya no. 65 Frunsenskogo rayona (for Miroshnichenko)

(Moscow--Landscape architecture) (Landscape architecture--Moscow) (Moscow--Playgrounds) (Playgrounds--Moscow)





HERMINI REPORT TO THE PROPERTY OF THE PROPERTY

48-5-20/56

SUBJECT:

USSR/Luminescence

AUTHOR:

Galkin L.N.

TITLE:

Infra-Red Photoluminescence of Lead Sulfide (Infrakrasnaya

fotolyuminestsentsiya sernistogo svintsa)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 1957, Vol

21, #5, p 680 (USSR)

ABSTRACT:

The photoluminescence of lead sulfide subjected to thermal treatment in the air was investigated. Special receivers, mirror optics, were applied for studying luminescence, and a

diffraction lattice was used as a dispersing element.

The luminescence of lead sulfide is inherent to samples showing a noticeable internal photoeffect, and is located in the infrared region of spectrum. The maximum of emission band was observed at 2.8 μ at room temperature and shifted to longer
wavelengths with the cooling of the sample. The power yield
of luminescence at the excitation by the green mercury line

was estimated to be 0.1 % at 20°C.

Card 1/2

The report was followed by a short discussion.

48-5-20/56

TITLE:

Infra-Red Photoluminescence of Lead Sulfide (Infrakrasnaya

fotolyuminestsentsiya sernistogo svintsa)

No references are cited.

INSTITUTION: Not indicated.

PRESENTED BY:

SUBMITTED:

No date indicated

AVAILABLE: At the Library of Congress.

Card 2/2

20-114-4-18/63 Galkin, L. N., Faofilov, P. P. AUTHORS: The Luminescence of Trivalent Uranium (Lyuminestsentsiya TITLE: trekhvalentnogo urana) Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 4, pp. 745-747 PERIODICAL: (USSR) First some previous papers dealing with this subject are referred to. When investigating artificial monocrystals of CaF2, ABSTRACT: SrF2 and BaF2, which contain about 0,3% uranium and were bred under strongly reduced (?) conditions, the authors discovered a strong luminescence. The spectrum of this luminescence is located in the ultrared domain at about 2,0 - 2,5 \u03c0. The monocrystals investigated here were bred from a melt in the vacuum and the process of breeding is here discussed in short. The crystals

bred in this manner were colored intensively, viz. CaF₂ red, SrF₂ orange-red and BaF₂ orange. This coloring is caused by the existence of strong absorption bands within the visible domain of the spectrum. The spectrum of the CaF₂-crystal containing uranium, which was bred in this way, is shown in a diagram. The absorption spectrum consists of some absorption bands in the ultraviolet visible and infrared domain of the spectrum. The

Card 1/3

The Luminescence of Trivalent Uranium

20-114-4-18/63

position of the maxima valid for room temperature is given here. The absorption spectra of the uranium-containing crystals of SrF2 and BaF2 are of similar character. The number and the shape of the bands remains unchanged for these crystals, but the intensive bands are shifted towards the short-waved side. The device for the investigation of the luminescence spectrum is described in short. The luminescence of the CaF2 crystals is very intense already at room temperature and consists of some bands located within the domain 2,1-2,5 M. At room temperature four bands are observed. The luminescence spectra of the crystals SrF2-U and BaF2-U are located in the same domain but differ with respect to structural details. Several reasons indicate that the here discussed luminescence is due to the trivalent ions U+++. The reasons are enumerated in detail. There are 1 figure and 16 references, 6 of which are Slavic.

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The Luminescence of Trivalent Uranium

20-114-4-18/63

PRESENTED: January 14, 1957, by A.N. Terenin, Member of the Academy

SUBMITTED: January 8, 1957

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67163 SQv/51-7-6-31/38

AUTHORS:

Gulkin, L.N. and Feofilov, P.P.

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TITLE:

Luminescence Spectra of Trivalent Uranium Ions

PERIODICAL: Optika i spektroskopiya, 1959, Vol 7, No 6, pp 840-841 (USSR)

ABS TRACT:

In 1957 the authors reported absorption and infrared luminescence spectra of trivalent uranium ions in artificially grown calcium, strontium and barium fluoride monocrystals (Ref 1). In the present paper the authors report more detailed data on the luminescence spectra of these crystals at room temperature and at -150°C. The crystals were grown by I.V. Stepanov and M.A. Vasil'yova from melt using a technique developed under the leadership of I.V. Stepanov (Ref 2). Strongly reducing conditions, which are necessary to obtain crystals with uranium ions of low valency, were ensured by putting some graphite powder into the charge. The amount of uranium in these crystals was 0.1-0.3%. The luminescence spectra were recorded in the same way as before (Ref 1). Luminescence was excited using a mercury lamp SVD-Sh-250; a cell containing water and heat-absorbing glass was placed between the lamp and the samples in order to cut out infrared radiation. The exciting light was modulated at 300 c/s. A mirror monochromator with a diffraction grating (300 lines/mm) was used to analyse luminescence. A lead sulphide

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Luminescence Spectra of Trivalent Uranium Ions

photocell was employed as a receiver and a signal was recorded by means of a potentiometer EPP-39. The comparatively high sensitivity of the apparatus made it possible to employ narrow slits (10-30 cm-1 in the 2.5 μ region) and to observe fine structure in the luminescence of these crystals at low temperatures. It was found that on cooling to -150°C the intensity of luminescence rose by a factor of 2-3 and this made it possible to use still narrower slits. The main results are shown in a figure on p 840; the left-hand part of this figure shows the luminescence spectra of CaF2-U, SrF2-U and BaF-U at 20°C, while the right-hand part of the figure shows the luminescence spectra of the sume crystals at -150°C. The positions of the emission bands and their general nature do not differ greatly between the three types of crystals employed. Cooling produces a clearer picture of the fine structure of the spectrum and shows the effect of variation of the crystalline-lattice parameters on the luminescence spectra Table 1 p 481 lists the positions of the luminescence band maxima at -150°C. An extremely narrow and intense band observed at -150 $^{\circ}\text{C}$ near 2.2 μ is displaced monotonically towards shorter wavelengths on transition from CaF2-U to BaF2-U. On both sides of this band there are wider bands whose positions approach the former on increase of the lattice constant of the base crystal. Such a displacement may be

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Luminescence Spectra of Trivalent Uranium Ions

regarded as the result of a change in the intensity of the internal electrical field in the crystal. It is also possible that the luminescence spectrum structure may be partly of vibrational nature. The authors suggest that the observed infrared luminescence of trivalent uranium ions is due to forced electron transitions within the 5 f-shell, i.e. transitions ${}^{4}\mathbf{I}_{11/2} \rightarrow {}^{4}\mathbf{I}_{9/2}$. According to Jorgensen (Ref 3) the separation between the two levels just quoted amounts to 4100 cm⁻¹ (2.44 μ) which is in satisfactory agreement with the authors data on the absorption spectra of U⁺³ in MeF₂ crystals. There are 1 figure, 1 table and 3 references, 2 of which are Soviet and 1 Danish.

SUBMITTED: July 2, 1959

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AUTHORS:

Galkin, L.N., Kurbatov, L.N.

TITLE

The effect of oxygen on the photoluminescence of lead

sulphide films

PERIODICAL: Optika i spektroskopiya, v.12, no.1, 1962, 95-98

It is pointed out that although there is extensive published literature on the electrical and photoelectric properties of lead sulphide, the optical properties of these films have not been investigated to the same extent. In particular, there has been no work on the effect of sorption of oxygen on the photoluminescence of lead sulphide films, which is claimed to have been discovered by the first of the present authors (Ref.1: DAN SSSR, v, 92, 1953, 529; Izv. AN SSSR, ser. fiz., v.21, 1957, 680). The aim of the present work was to investigate changes in the conductivity, photoconductivity and photoluminescence during the absorption of oxygen at room temperature. Vacuum lead-sulphide photoresistors prepared by Ye, V, Prokof'yev in accordance with the method of I,G,Kopilevich were investigated. The resistance was determined by a dc method and the photoeffects were measured Card 1/#

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The effect of oxygen ...

"in the usual way" in modulated light and with a germanium filter. The luminescence was excited by a mercury lamp. The emission of the specimen was examined through crossed filters and was measured with a cocled lead sulphide photoresistor. Fig.l shows a typical result obtained on first contact with oxygen. The resistance of the film is plotted along the horizontal axis on a logarithmic The points refer to different times of contact with oxygen. Displacement along the horizontal axis to the right corresponds to an increase in the amount of sorbed oxygen and the displacement_of the Fermi level towards the valence band. The values of $\triangle R/R^2$ which are proportional to the photocurrent in and the intensity of the luminescence In are plotted along the vertical axis (in relative units). It is clear from this figure that chemisorption of oxygen gives rise to a change in all the three quantities, namely the resistance, the photocurrent and the The salient points are: the quantum yield is small and the effect of oxygen on the luminescence is very much smaller than on the photoconductivity or conductivity. results are interpreted on the basis of a model which takes into Card 2/ / -

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The effect of oxygen ...

account the effect of capture of minority carriers by traps of non-recombinational type during the lifetime of a majority carrier. It is assumed that adsorbed oxygen molecules play the part of these traps. From this point of view, the effect of oxygen absorption on the conductivity and photoconductivity is a primary result of absorption. The effect on the luminescence is an indirect result associated with the redistribution of the population of recombinational levels. There are 3 figures and 4 references: 2 Soviet-bloc, 1 Russian translation from non-Soviet publication and 1 non-Soviet-bloc. The reference to an English language publication reads as follows:
Ref.3: H.T.Minden. J. Chem. Phys., v.25, 1956; J.C.Slater. Phys. Rev., v.103, 1956, 1631.

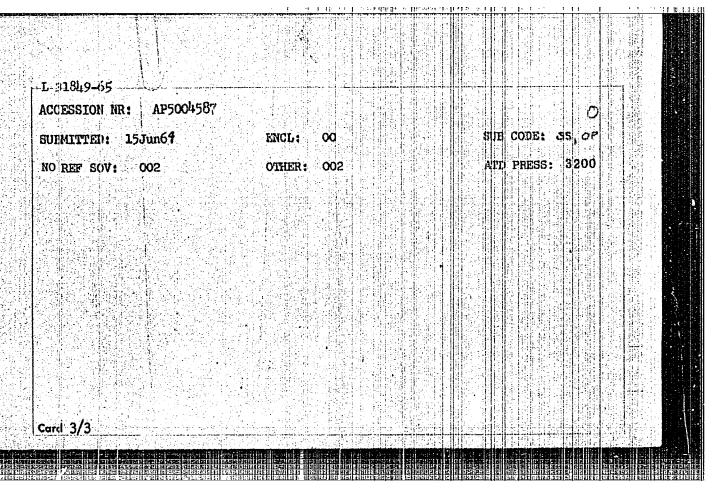
SUBMITTED: January 14, 1961

Card 3/4 -

LIP(c) 1, 31849-65 EWT(1)/EWT(m)/T/EWP(t)/EWP(b)/EWA(h) Pz-5/Pab HDW/AT/JE s/d020/65/160/002/d308/d310 AP5004587 ACCESSION NR: AUTHOR: Galkin, L. N. WITLE: Recombination radiation in lead selenide layers SOURCE: AN SSSR. Doklady, v. 160, no. 2, 1965, 308-310 TOPIC TAGS: lead selenide, lead sulfide, recombination reliation, luminescende, Luminescence center, photoconductivity, forbidden band ABSTRACT: The article describes the recombination-radiation spectrum of a lead selenide layer, compares the photoconductivity and photoluminescence spectra of lead selenide and sulfide, and interprets the observed parallelism in the spectra shift of both effects from a single point of view, attributing it to the heterogeneous composition of the layer. The luminescence spectra were excited with a mercury lamp whose thermal radiation was filtered out with water, and were measured with a Ffund-type mirror monochromator with a 200 line/mm diffraction grating and a cooled lead telluride photoresistor as a receiver. The exciting light was modulated with a perforated disk. The luminescent radiation was filtered out with a germanium optical filter. In both substances, the maximum of the luminescence Card 1/3

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	spectrum coincided approximately with the wavelength at which the photoconductivity
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	se the accumption that the relative shift in the luminesdence and photoconductivity
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	is assumed on the basis of other experimental data that the luminescence is due primarily to recombination of a hole with a center that had previously captured an
	while the structure of the centers themselves is independent of the
	nothed of laver preparation, their energy terms are governed both by the properties
	doe the lead chalcogenide and by the properties of the dxide environment, Millian in
	turn are governed by the method of preparation and activation. This makes for a
	variable forbidden gap and explains the different positions of the photoconducti- vity and luminescence maxima. "The author thanks Academ cian A. A. Lebedev and
	w Vurbetor and also T. V Abarenkov and M. M. Petraillen Itir interest and
	Transla binto C N Thompikova and O A. Kurzina rendered preat nelp in the
	measurements." This report was presented by A. A. Lebed v. Urig. art. has
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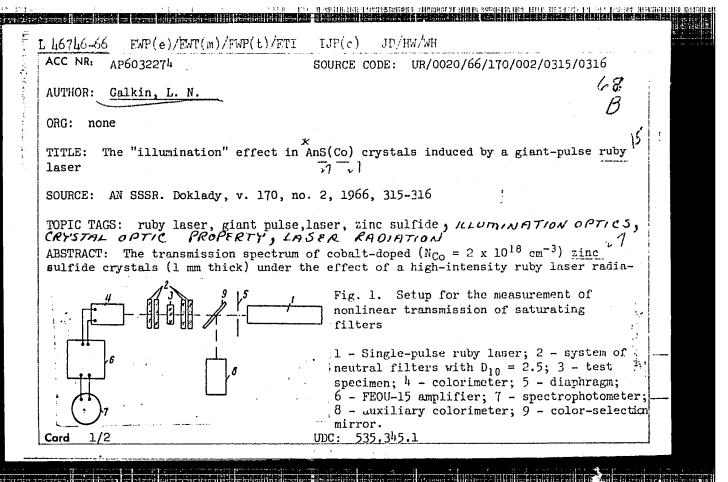
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GALEIR, L.R.

Recombination radiation from lead selenide Films. Dok.. 25 *** R 160 np.2:308-310 Ja 165.

1. Submitted July 27, 1964.



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tion was investigated at 694 m, setup shown in Fig. 1. The resat an incident intensity of approximation of the Coastate. The relaxation time of $\tau = 1 \cdot 10^{-9}$ sec, assuming $\sigma = 1$ number of ions remains in the mathematical lower ${}^4A_2(F)$ state is radiative ${}^4A_2(F)$ and ${}^4T_2(F) \longrightarrow {}^4A_2(F)$ trace exposed to short optical properties of the setup of th	sults indicate that proximately 50 Mw/ci ²⁺ ions migrated from the inverted trans $6 \cdot 10^{-17}$ cm ⁻² . This metastable ${}^{4}T_{2}(F)$ see and requires tens ransitions remain quantum series to the second series of the second second series of the second second series of the second series of the second second series of the second seco	a 50% "illumination m ² , in a process dur om the "A ₂ (F) state ition was found to be indicates that on tate, transition from the continuous of page. Thus, the uasi-independent when	n" was attained ring which a to the ${}^{4}T_{1}(P)$ be high, ly a negligible om which into the ${}^{4}T_{1}(P) \longrightarrow$	Le:
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GALKIN, L. P.

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1. Iz Velikolukskogo protivotuberkuleznogo dispansera (glavnyy vrach - zasluzh. vrach RSFSR V. S. Grebennikova) Adres avtora: Velikiye Luki, ul. Sibirtseva, d. 45, Protivotuberkuleznyy dispanser.

(SPINA BIFIDA)

CARTY, I. C.

Stars - Spectra

"Two-dimension" classification of stellar spectra obtained with very slight dispersion.

Izv. Krym. astrofiz. obser. 9, 1952.

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GALKIN, L. S., KOFYLOY, I. M., MUSTEL, E. H.

"Spectrophotometry of Gamma Cassiopeiae" Izv. Krymsk. Astrofiz. Observ., 11, 1954, pp 59-73

A total of 12 spectrograms of gamma-Cas. obtained by means of the 1,200 mm reflectors of Crimea Observatory and the spectrograph constructed by V. A. Albitskiy are analyzed. Iron-are spectrum was used for comparison. Micro-photograms were obtained by self-recording Moll's microphotometer. Data are tabulated and compared with quantum number n of Balmer series. (RZhAstr, No 11, 1954)

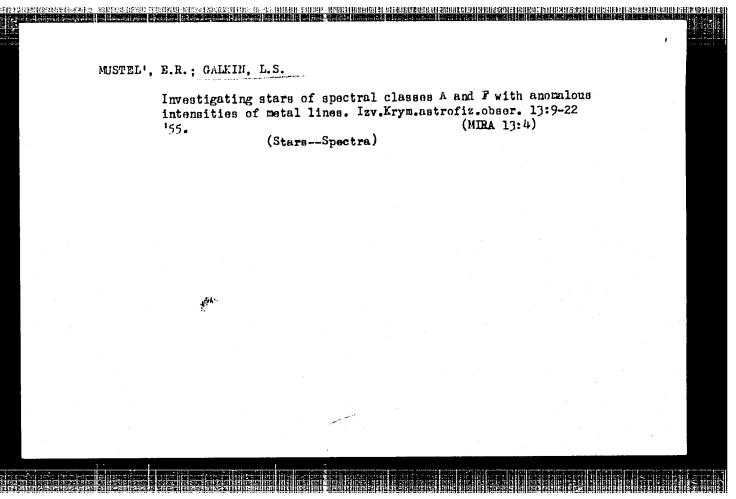
so: W-31187, 8 Mar 55

GALKIN, L. S. and MUSTEL, E. R.

"Study of Stars of Spectral Classes A and F With Anomalous Intensities of Metallic Lines" Izv. Krymsk, astrofiz. observ., 12, 1954, 148-161

The relatively small content of neutral and singly ionized atoms of some metals in "metallic" stars may be due to several causes: deviation from normal state, i. e., from the state, i. e., from the state to which most of the main sequence stars belong and anomalous excitation conditions, as producted by strong ultraviolet radiation fields, created by recombination of ionized H atoms. It is exhibited by the difference of profiles of Balmer series and confirms a real deviation of the chemical compound from that of main sequence stars. (RZhAstr, No 10, 1955)

SO! Sum-No. 787, 12 Jan 56



MUSTEL', B.R.; GALKIN, L.S.

Investigating A and P-type stars with anomalous intensities of metal lines. Part 3. Spectrophotometry of Castor B. Iav. Krym.astrofis.obser. 15:136-139 '55. (MIRA 13:4) (Stars--Spectra)

GAIKIN, L.

"Crimean Astrophysics Observatory," Izvestiya, No.211, p. 3, 6 Sep 1955

Scientific Secretary, Crimean Astrophysics Observatory

Summary translation D 332651, 19 Oct 55

"Conference Devoted to Problems of Astrophysics"
Astronomicheskiy Zhurnal, Vol XXXIII. No. 1, 1956, yr 126-128
Translation M-3,053,057, 4 Jan 57